

Norma

MARCA REGISTRADA

COLEGIO

E. P. Hillier

Cuaderno de

Colombia - 1944

Pertenece a

38443 - encl

E. P. Killip
Apt. 570, Cali

Melilotus alba OK!

HUC (Garcia) / 447

is *Desm.*: *canum*, not affine?
check

HUC (Garcia / 447

is Desm., canum, not affinis?
check

Peru ~~20~~ 3005 is

Desm. poeppigianum not
intertum

Chotalaria
work in Tuerckheim

Z. diphylla (Tyl.)

1650 m.

Una, ₁ Genebaret Maria in 1933 (LS)

Perez 2224

Centrosoma pubescens. here,

wt Clit. subquadrata

Melilotus alba OK!

"La Picota", near Bogota,
Garcia 7

Try to get away from
stipules produced.

PLANTS OF VIRGINIA

No.

PAUL C. STANDLEY, Collector

Det. Stylor. capitata at HMC by Eric report

HMC 2237, 2412 ——— Check.

HH 59 "S. biflora" = ?

~~Stylos. guianensis~~ (LS)

~~And. Sasuma~~

Sasuma, Antonio Amelo

in 1941; Silvano Jorge

" " Mr. Ricardo in 1942

Boyaca: San Mateo, Villavieja

in 1940

Valencia, Apol. Mar in 1929,

Niceforano 1927

Medellin, Jan 4 68

~~Trinidad, C. B.~~

Melilotus alba - Guatavita, Anita Joseph
Genebeaud Marie (in 1919 (LS).
Une, ~~Gene~~ in 1933 (LS)

Trif. pratense

Bogotá, Apoll. in 1924 (L5)

Galactia striata

HUC 465 (Nash, D. T., Conn.)
same as our *Opulo speciosa*. Source of
striata

Papilionaceae Notes
made at Huc. To insert

LEVELS OF CORRY HCV

PLANTS OF COSTA RICA

GPO

Beuthamania

Perhaps 2 things under caribaea,
Lango-lo - ^{3200m...} Hervey, Trema; Hught 2411,
Smith 278, Archer 3341

Small land. Anat. 1102, 1070, Smith 2042

Gliricida sepium is probably not native to Colombia. Widely used for shade and hedges, but always found near human habitations. I have not seen it wild in forest.

was all the
EUK 33036

Scorodinia ~~to~~

~~not det.~~

adscendens (Sw.)
DC.

Euc 35533

Scor. campylocarya
(Sw.)

atropurp. (LS)

Col. : Espinal, April. in 1928

Rh. vulgaria L.

Cond. : El Ocaso, Herm. Genoveva and Maria

Von Sueden

Especial

410 Calceoloma

Vicia setifolia: Narino: Cumbal, 3700m; # 407

Bomarea plumbata Laguna, Salento, 3000m

" folipenna

3244

Trifolium filiforme ~~Colo~~ " " 2800 sm.

Tournefortia scabrida HBK (wh. scarlet fr.) Tolima: Toche 2200m. - 3314

Mucuna mollis - El Tumbaco, 1700m, - m. 219

Tournefortia curatelliana - Tolima: Toche, 2300m m. 3063

Bomarea densiflora - Narino: Cumbal, 4000m, ~~III~~ III-19-'41

Trifolium repens - " " 3500m II-10-41

E. P. Killip
Apt. 570, Cali

38443. Rapot?

Tr. \pm 4 m; ~~with~~ fr. black, shiny.

444. Clethra

Tr. \pm 3 m.

445. Psychotria

4-5 m; calyx & br. of inf. red; cor. deep pi, paler below

446. Asplenium

~~447~~

447. Philodendron

Ep. & ter; spathe pi tow. base, greenish above; spadix, light ^{down 1/2} gr. ~~down 1/2~~, pi. ~~up to 1/2~~

448. Moss

Contt.

449. Fungus

Contt; cor deep pi. beneath, whitish above & pi at margin

450. Anthurium

Ter.; spathe, greenish pink out; ^{lvs distinct ben.} reddish purple in; spadix greenish wh.

451. Alchornea

36-8 m; inf. greenish wh, borne on main branches

452. Hedysarum

Tr. 8-10 m; inf. light gr.; fr. wh.

453. Polypodium

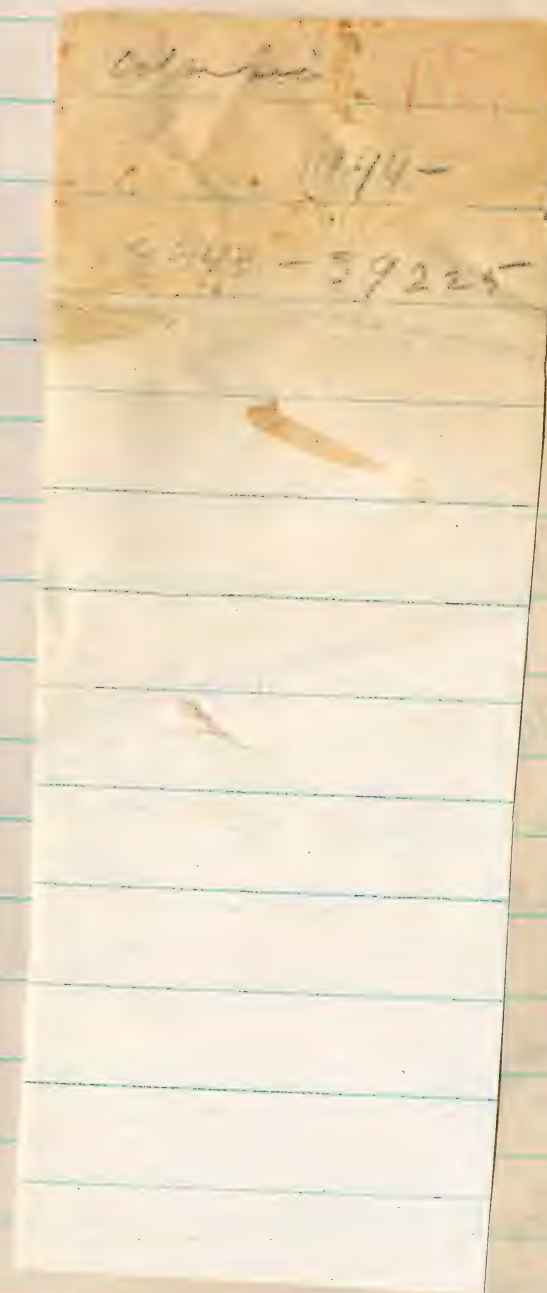
Ter.; repent

454. Hydnophora

Contt, fronds drooping

Cauca: La Capilla

5/24



Columbian



1944-

3 8 443 - 39225



38443. Rapet?

Tr. ± 4 m; ~~with~~ fr. black, shiny.

444. Clethra

Tr. ± 3 m.

445. Psychotria

4-5 m; calyx & br. of inflo. red; cor. deep pi, paler below

446. Asplenium

~~447~~

447. Philodendron

Ep. & ter; spathe pi tow. base, greenish above; spadix, ^{lower} ~~light~~ ^{1/2} gr. ~~lower~~, pi. upper ^{1/2}

448. Moss

On T.T.

449. Fungus

On T.T.; cap deep pi. beneath, whitish above & pi at margin

450. Anthurium

Ter.; spathe, greenish pink out; ^{lvs distinct below.} reddish purple in; spadix greenish wh.

451. Alchornea

3-8 m; inflo. greenish wh, borne on main branches

452. Hedysolum

Tr. 8-10 m; inflo. light gr.; fr. wh.

453. Polypodium

Ter.; robust

454. Hymenophyllum

On T.T., fronds drooping

Cauca: La Capilla

5/24

38455. Fern

On Tt.

456. Moss

Ter.

457. Peperomia

On Tt

458. Orch.

Base of Tt; per. pi.

459. Ficus

Tree 8-10 m, tr. 30 cm. diam

460. Palicourea

Tr. 4-6 m; cor. red.

461. Peperomia galindii

On tr. tr.

462. Anthurium

Ter; spathe gr.; spadix deep purple

463 Elaph.

Ter.

464. Polypodium

Repeats on T

465. Lycopodium

On Tt, drooping

466. Lichen

On T. Pl. bright gr. above, dark brown beneath, wh. toward tips

Cauca: La Capilla

5/24

38467. *Urech.*

Ep; per. greenish wh.

468. *Brom.*

Ep. Infl. stalk 5.5 ft. long.

469. *Visinia lehmannii*

Tr. 6-8m; fruit green deep green

470. *Miconia*

Tr. 6-8m.

471. *Clusia*

Tr. 6-8m; pet. red (not collected)

472. *Myrt.*

Tr. 6-7m; fr. 7-9, *metam.*

473. *Alchornea*

Tr. 7-8m.

474. *Euph.*

Tr. 6-7m.; infl. green ♂

475. *Euph. sam.*

Infl. ♀

476. *Neclandra*

Tr. 7-8m; fls. greenish wh

477. ~~the~~ *Lacistema*

Tr. 6-7m

478. *Peperomia*

on L.

Cauca: La Capilla, dense forest along stream. 5/24

In open

Edge of woods along stream

38479. *Polypodium*

Reptant on T. I.

480. *Viaria*

Tree 6-7 m.; ^{lens.} inf. & leaves rusty brown (change and flowering sp. from 46954)

481. *Tibouchina*

Low 5 40-60 cm; pet. deep pi; fil. wh.; anthers y-g

482. *Mikania scandens*

H.V.; fls. ^{ls} greenish wh; styles wh.

483. *Lichen*

On branches

484. *Lichen*

As.

485. *Saurauia*

Tree 6-8 m; pet. wh.

486. *Befania*

S \pm 2 m; cor. pinkish red.

487. *Calca*

S with long, br \pm 1.5-2 m; florets y

488. *Calca glomerata* Walt. ! Eric.

Compact S \pm 1 m; florets y

489. *Tibouchina*

S \pm 1.5 m; pet magenta purple

490. *Befania*

S \pm 2 m; cor. light pi.
(color form of 486?)

La Capilla; Edge of woods along potrero.

5/24

Wet soil

Outcrops in open

" " " woods

Edge of woods

Roadside thickets La Vanta de Cajibío, 231 km nw. of Pop.

38491. *Eric.*

Low, compact shr.; fr. wh.

492. *Eupatorium*

Sph. ± 40 cm.; florets o styles rich pi.

493. *Eup.*

Low suff. h up to 30 cm.; florets pi.

494. *Liabum*

S ± 1 m; florets bright y

495. *Viburnum*

~~Shr., few branches~~ Shr. or small tree, up to 2.5 m

496. *Rhus*

Tree up to 6 m; inf. fr. deep purple.

497. *Cordia*

Tr. 6-7 m; trunk ± 25 cm. diam.

498. *Moss*

On steep bank

499. *Ficus*

Tree ± 5 m

500. *Clusia*

Tree 7-8 m.

501. *Weinmannia*

Tr. 4-6 m

502. *Lepecilimia*

Shr. or sm. t 4-5 m; cor. wh.

Roadside thicket, ~~La Venta de Cajibío~~

5/24

La Venta de Cajibío

Same place, road to Cali 20 km;

5/24/44

Photo

Roadside

Causa:

La Cabrera, bet. Popayan & Purace

5/26/44

2000 m.

38503. Elaph.

On bank

504. *Lesm.*

H; cor. rich pi out, ^{wh. at base;} tube wh. in, lobes green, purple-spaced.

505. *Lesm.*

H. with thick rootstock; cor. r.

506. *Dahlia lehmannii*

S up to 2m; rays bright pi; florets y

507. *Stevia*

^{resinous}
S 1-1.5m; florets wh.

508. Moss

On moist bank

509. *Viola*

Spreading h; pet. wh, pink-tinged; s

510. Grass

511. Grass

512. *Hieracium latifolium*

Infl. golden y - Erect herb

513. *Calceolaria*

Ex. sup. h. 40-50cm; cor. golden-y

514. *Calceolaria*

H, spreading 50-70cm; " "

Near Pucallpa village, act. ± Rio Ananabio

5/26

~ 2200m.

Open bank

P

2500m.

± first shot ~~3100~~ 3100 m. Irea Chorro,
just below Par. de Pucallpa

open bank

~

~

~~shrub~~
shrub bank

38515. *Hydrocotyle*

H, repent on moist bank; lvs. lustrous

516. *Oxalis*

In dense clumps; ^{with long. br.} pet. 7 (large), pink - striped

517. *Fuchsia*

S ± 40 cm; fls. scarlet

518. *Polypodium*

Ter.; in shade

519. *Mutisia*

Sup. vine; rays bright red; fls. (pinn. rays) ^{violet anthers} deep red; st. 4-9.

520. *Moss*

on bank

521. *Tibouchina grossa*

Compact S, ± 60 cm; pet. deep red.

522. *Lepachium*

Compact S 60-80 cm; cor. pinkish white (seeds separate)

523. *Epilobium*

On steep wet bank, H; pet. deep pi to wh.

524. *Couph.*

Coarse to 30-40 cm; rays pinkish wh.; thick rt. stock

525. *Hypericum baricifolium* ! Cuatr

S 20-50 cm; pet. bright y, large

526. *Senecio uncinifolius* (S. *mutisii* Cuatr. f.)

Compact S 1-1.2 m; fls. light y

Fres Chorro

5/26

Open bank

Steep bank

Rio Cocuy, Par. de Puracé, 3200-3400 m.

38527. *Senecio canescens*

Comp. sh. to 1m; fls. y

528. *Bartia* ✓

Suberect h, to 80cm; cor. pi

529. *Apium*

H, ^{sup}erf. at base, branches erect; pet. wh. # 30-50 cm.

530. *Baccharis*

Compact S 1-1.3m; bracts deep purple.

531. *Utricularia*

Caesp. herb; rays y

532. *Moss*

On wet bank

533. *Fungus*

Ter in open; caps salmon

534. *Grass*

In open -

535. *Jamsonia grandis*

Erect, under shrubs

536. *Isotria*

On steep wet bank.

537. *Lichen*

On twigs

538. *Sol. punctatum*

Low sup h; cor. blue; anthers y

Rio Cocuy, Par. de Puracé 3200-3400m.

5/26

In open

Wet bank

Thickets

In open

38539. *Hypochaeris*

H; rays golden y

540. *Rosa*

541. *Comp.*?

542. *Sphagnum*

543. *Geranium*

Matted herb; pet. light pi

544. *Lichen*

Erigoid wh. hem. o young plants above, becoming gray brown

545. *Halenia*

Coarse h, ^{up to} 1.5 m.; cor. greenish w or yellowish gr.

546. *Racheinella*

H, prostrate br.

547. *Lachenilla*

do.

548. *Nyctaginia*

Er. s, 25-35 cm; pet. y

549. *Opalis*

Low h; pet. y

550 *Ranunculus*

Spreading herb; sep. y

Rio Cocuy, Par. de Purace 3200-3400 m. 5/26

^{de Puracé}
Paramo, 3500 m; sphagnum marsh

38551. *Altensteinia*

552. *Eleocharis*

553. *Geranium*

Low matted herb, stem ± woody; pet. ~~large~~ bluish pi.

554. *Sibthorpia*

Slender repent tr.; cor. deep red ~~for~~ purple-red.

555. *Eleocharis*

556. *Moos*

557. *Plagiocheilus*

St. repent.

558. *Scirpus*

~~559~~

559. *Chenanthus*

560. *Marchantia*

561. *Lupinus nunes*

Low herb; pet. purplish blue

562. *Baccharis*

Compact S, ^{1.5} 2 m.

Par. de Puracé, 3500 m.; *Sphagnum* marsh 5/26

38563. Egeron

Erect herb; fls. greenish y

564. Castilleja

Erect h., simple or few-branched, 30-40 cm; bracts gr. to red;

565. Arracacia

8 Coarse h. 1-1.5 m.; infl. gr.

566. Lupinus

Spreading herb 40-60 cm.; fls. deep purplish blue, st. pale

567. Ryuchiophora

Coarse herb; 80-100 cm.

568. Mora

On bank

569. Polytichum

" "

570. Valeriana

Caesp. herb; cr. pure wh.

571. Comp.

Erect herb, unbranched; fls. y

572. Diplostegium

Compact S, ± 2 m.

573. Loricaria

S 20-40 cm.

574. Lachenilla tenuifolia

Sphag. marsh. Par. de Puracé, 3500 m

5/26

cr. greenish y

(Eastern slopes)

(Western ^{side} slopes) sphag. bog.

moist soil

" "

Sphag. marsh

" "

38575. *Gentiana sedoides*

Cor. ~~light~~ light blue

576 *Lachenilla galioides*

Erect or lax herb,

577. *Gentiana*

Erect suffr.; cor. purplish blue, later in .

578. ~~Bartonia~~ *Bartonia*

Slender herb; cor. pink

579. *Stellaria*

Lax herb; fls. wh.

580. *Carex microglossa*

581. *Senecio vaccinioides*

Pl. suffr.;

582. *Rhynchospora*

Coarse herb, ± 1.5 m.

583. *Jamesonia*

~~583~~

584. *Valeriana*

Dupl. greenish

585. *Espeletia*

Stem 50-70 cm; rays golden-y.

586. *Blechnum*

Thick rootstock

Photo

Sphagn. marsh Par. de Pumas, 3500 m. 5/26

moist bank

Sphagn. marsh

Dry par. & sphag. marsh

38587. *Puya*

Plant (this one) 95 cm. high; thickest part of flower-stalk, near apex

588. *Lachenilla gracilis*
H₂ with
Erect br.

589. *Nachelia*

Herb; corolla obly blue

~~590~~
600. *Cystopteris*

~~591~~
601. *Blechnum*

592. *Camp*

Erect herb; florets y.

593. *Rumex*

Coarse herb, up to 2 m.

594. *Bomarea*

Erect h. Sep. bright r; pet y, with a few medium-size purple spots in

595. *Grass*

Pl. \pm 1.5 m. high

596. *Chusquea weberbaueri*

Pl. erect, \pm 1.5 m. high

597. *Baccharis* aff. *genua*

Pl. erect, 25-35 cm. high

598. *Grass*

Infl. deep purple

600. Toward base, Par. de Puna, 3500 m. 5/26

10 cm.; lvs. \pm 35 cm. (3 specimens 1-1/2 spec 2, 1/4 spec.

Eastern slopes of Paramo Puna 3400-3500 m.

Wet bank

~

Paramo

38599. *Cardamine*

Slender herb.

600. *Lupinus*

Fls. stalk 65 cm. high, 12 cm. diam; pet. light blue, wings

601. *Ranunculus*

Prostrate in shallow water

602. *Fuchsia*

S ± 70 cm; ^{fls.} pet. red.

603. *Puccinia*

On 600

604. *Peperomia*

Dependent from branches of large tree

605. *Anthurium*

Ep. spathe light gr.; spadix dark gr.

606. *Lycopodium*

Dependent from tree branches

607. *Rubus*

Semiprostrate shrub; pet. rich pi

608. Moss

With 601, Ter.

609. (Lichen) *Cladonia*

Plant ashy; Ter.

610. *Senecio*

Woody vine; fls. in bud only

Eastern slopes, Par. de Puracé, 3400-3500 m

5/26

West places

~~Western slopes~~

Along Rio Coany

stippled with deeper blue, standard deep blue at center in

Western slopes

Barro Colorado ± 3400 m.

Paramo; moist soil, 3500 m.

Barro Colorado ± 3400 m.

38611. ~~Eupatorium~~ Senecio

Compact S, ± 2 m; florets wh.¹

612. Cassia

Sh. ^{up to} at base, with a dense crown ± 2.5 m. high & wide; pet. y

613. Pavonia

Low slender S, up to 60 cm. high; pet. wh.

614. Myrt.?

Low S up to 60 cm; pet. wh.

615. Melast.

S 1-2 m; pet. wh; fr. black

616. Ficus

Spikes dark brown

617. Elaph. parvum

Ep.

618. Epidendrum nocturnum

Ep. Sseq. green y, col. & lip wh.

619. Brom.

Ep.; flowering stalk 1.2 m. long, much-branched

620. Brom.

Ep. bracts green at base, purple above; bractlets gr, purple at tip

621. Polypodium brasiliense

~~See~~ Rep. on tt.

622. Apoc.

Sup. vine; cor. wh; lvs. glaucous beneath.

Sernando, 3400 m.

5/26/44

↑ El Valle, Lobo Guerrero, 678 m. alt.

5/31/44

↓ El Valle: Buenaventura Bay, Isla de Punta de Arena, ^{near camp} 6/2/44

Mangrove Swamp (1)

Woods at edge of (2)

(2)

(1)

(1)

1

1

1

1

1

38622 Bign.

W. V. Subscand. S.; Cor. wh.

38624 Pelluciera

low to 5 m; calyx wh.; fr. wh.; bracts light gr.

38625 Tillandsia bulbosa

Ep.

38626 Malp.

W. V; pet. y

38627 Eleocharis

In mud

38628 Myrt.

Tr. ± 3 m.

38629 Bromel. imbricata

Ep.; bracts gr.; red at margin

38630 Melast

S 1.5-2 m; young fr. pinkish red.

38631 Melast

T 5-6 m; young infl. w

38632 Clusia

T 4-5 m; buds wh.

38633 Codonanthe

Ep.; succ. br.; cor. wh.

38634 Epidendrum parviflorum

3 seg. y-9, 2 wh.; cal. o. l. light y - Ep.

38635 Hippocr.

W. V; fr. deep green

38636 Pavonia rhizophorae

8 Erect, ~~unbranched~~ S, 50-60 cm.; pet. greenish wh.

38637 Rynchospora

Coarse herb; infl. whitish.

38638 Acrostichum

Fronds up to 2.5 m. long; young fr. often simple

38639 Guzmania

Ep. ~~calyx o bracts~~ br. or red; lvs variegated light o deep gr.

38640 Thib.

Shrub elong. branches; epiphytic (?) young fr. reddish lower half, yellowish upper.

38641 Melast.

Sh 2-3 m; fr. deep purple; lvs. very light brown above.

38642 Anthurium

Ep. spathe gr.; spadix greenish wh.

38643 Carludovica bicolor

Ep.; spadix deep green.

38644 Bromel.

Epip.; branches of inf. o bracts red.

38645 Spathiphyllum

Scandent out l.; spathe greenish wh.; light green in fruit; spadix light pink in fruit, cor. white

38646 Anthurium linguulatum

Ep.; fruit red; spathe violet; spadix deep purple; fr. red

38647 Sphynspermum major

Ep. with drooping br; fruit wh.

Isla de Punta de Arena

6/2/44

38648 Philodendron (stems) (2)

Ep.

38649 Elaph. (1)

Ep.

38650 Vittaria (1)

Ep.

38651 Piper (2)

5 m high; spikes wh.

38652 Dicranopteris (2)

Vine, hanging on bank

38653 Malp. (1)

Woody vine, high climbing on Pelliciera; pet. y.

38654 Rhizophora mangle (1)

This tree 12 m. high; lvs. lustrous above; calyx pinkish gr.

38655 Poleptaschya (1)

Ep. in fruit.

38656 Alga (1)

On base of tree tr., undulated

38657 Alga (1)

On base of tree trunk, undulated

38658 Dep. (1)

On branch

38659 Conocarpus erecta

Sm. tree

Estero de Bodegas, Botuna Bay
all mangrove swamp

6/2/44

38660 Avicennia

Tr., sometimes up to ⁺20 m.; cor. wh.

38661 Cyplanthaceae

On trees; stem suberect; fruiting spike deep green, lustrous

38662 Sphryospermum cordifolia

On tr., dependent branches; fls. & fr. wh.

38663 Sobralia

Ep.; 5 seg. 4-9 out, deep red in; lip red out, & at apex in, pink in lower half in; cor. wh.

38664 Psammisia

Ep. on Mora; calyx light gr. - white; cor. red & light red; corona wh. Roots system very large

38665 Nuclearia

S, probably epiphytic

38666 Anthurium

Ep. Spathes reddish br.; spadix pinkish brown

38667 Odontoglossum

3 seg. 4 only at base, elsewhere deep red, 2 seg. 4, red-spotted; leaf mostly red. - Ep.

38668 Elaph.

Ep.

38669 Philodendron

Ep.; spathes yellowish; spadix 4-9 below, pink above

38670 Renggeria

Ep. Sh. on large trunks; fruit light green

38671 Asplenium

On tree

Estero de Bodegas, Botura Bay 6/2/44
South shore

38672 Anthurium ^{fruit red}
(Spatha ^{fruit green} green, spadix light gr.) Ep. ^{old - spathe pink}
38673 Bromel. ^{spadix purplish}
Ep. (Pl.)

38674 Fungus
On trunk of mangrove

38675 ~~Polyp~~ Fungus
Plant wh. Hab. do.

38676 Polyporus sanguineus
Pl. red. Hab. do.

38677 Thrich. Fungus
S; bracts ~~wh~~ pink; cor. wh. Plant wh.

38678 ~~Brom~~ Thrich.
S; bracts pink; cor. wh.

38679 Brom.
Ep.

38680 Rub.
S # 1.5-3 m.; ^{ripe} fruit black.

38681 Thich.
S; calyx pinkish wh.

38682 Wedelia
Herb, with long petiole at base; rays y

38683 Leguminaria Tree, up to 10 m. high; fls. light y

Playa de Basán, entrance to B. B. 6/3/44
North shore ("Mangle blanco") fruit

Playa Basán, Botura Bay, north shore 6/3/44

38684 Stigmaphyllon

H. V; fls. y

38685 Rhoesopora

T 3-4 m. Pet. or-y; stamens y

38686 Erac

Tall; Infl. purplish

38687 Kyllinga peruviana - Hds. wh.

38688 Lantana

S 2-2.5 m. cor. r.

38689 Guilandina

Low, spreading shrub; fls. y

38690 Melast.

Small tree 2.5 m.; fls. wh.; fil. wh.; anther greenish y

38691 Coele

Er. shrub 1-1.5 m; br. red; fls. y

38692 Tuberostylis anillaris ^{herb, straggling, 80-90 cm. long; lvs. succulent. On shaded bank}

38693 Borreria

Thick clumps on streambank, cor. wh.

38694 Piper

Shrubby T., 2.5 m.; lvs. lustrous above, pale beneath; ^{shiny} fls. wh.

38695 Asplenium

Rocky bank along bay.

38696 Abarema

Tall tree, 25-30 m. high. along shore

Colorado, Botura Bay, north shore (now inundated woods forest)

Colorado, W. shore Botum Bay, Non-inund. forest
6/3/44

38697 *Muellera*

"Barbasco" Low shrub, 1-1.2 m.

38698 *Rynchospora*

Tall herb, 1-1.3 m.

38699 *Cyperus ligularis*

Tall herb, culm to 2 ~~1.5~~ 1.5 m. (seeds separate)

38700 *Fimbristylis*

38701 *Rub.*

with long br.
S 2-2.5 m; cor. greenish wh; fruit purplish red

38702 *Rynchospora*

In clumps, Forest, infl. whitish

38703 *Asplen.*

H.V. cor. wh. corolla a corona wh.

38704 *Salpichlaena volubilis*

Vine, often high climbing on tr. tr.

38705 *Anthurium*

Ter.; spathe grass green; spadix deep purple; fr. rose-red

38706 *Hypolytrum*

Coarse herb.

38707 *Renanthera*

Leafy stem \pm 3 m; infl. at base \pm 30 cm; per. wh.; fr. red when ripe
Photo 2.2 x 1.8 cm

38708 *Cyperus*

(seeds for C. U.)

Open places
along bay
"Cleaning"

Colorado, W. shore Puentea Bay, Non-inund. forest.
6/3/44

38709 *Papier*

Tr. 2-2.5 m, few-branched

38710 *Mikania*

\pm sup. vine; florets greenish wh.

38711 *Dryopteris*

Ter.

38712 *Cecropia* (♀ inf. only - description applies to it)
branched above bracts red out, fruit wh. in; infl. greenish y; stip. dark red
Tr. \pm 15 m, 12 cm. diam. ♀ infl. 4-6 cm. long

38713 *Cecropia* (bracts red-streaked) stipules red-brown out, white in (aments 20 in number)
Tr. \pm 8 m; stem unbranched; (only) orange-y

38714 *Solanum*

WV; fr. orange brown to orange-red, 3 cm. diam.

38715 *Cephaelis*

bracts purplish; buds white. Small. ovary green & wh-striated. Sep.
Tr. 3 m, trunk erect, branched toward

38716 *Croton*

Er. herb, 1-2 m; bracts red

38717 ?

Coarse herb, 35-40 cm; per. greenish y

38718 *Mikania*

H.V.; florets ~~greenish~~ wh.

38719 *Laur.*

Large
Tr. \pm 20 m; fruit dark green (wood samples)

38720 *Tournefortia*

J 5-6 m; fruit green

(Cleaning)

Forest

Colorado

non-mimetic 6/3/44

38721 Treefern

Caudex 30 cm, ^{1-1.5 m.} but up to 1 m. high; frond 2 m, ^{stipe} petiole 50 cm.

38722 Melast.

Subsc. shrub, ~~with~~ long old fruit only, white

38723 Polypodium

Ter.; stipe & frond 1.7 m. long.

38724 Scleria

38725 Philodendron

Vine on tr; apoth. obcordate 4-9, ~~spathe reddish~~ at base

38726 Philodendron trilobum

Ter.,

38727 ~~Lygodium~~ ~~lindleyi~~ Ter.

38728 Polyporus sanguin ^{non-mimetic} Estero de Congrejo 6/3/44

38729 Solanum

Cr. wh, ^{florid} pink tinged out; W.V.; fr. orange, 1.8 cm. diam.

38730 Tradescantia

Succ. herb, elong. stems, repent at base; per. pinkish blue

38731 Sol.

Small tree 4 m; fr. black.

38732 Rub.

W.V.; cor. wh.

38733 Clusia

Tree, 5 m; fruit ivory, brown-tinged at base; petals, white

~~Estero~~ Estero de Congrejo non-mimetic 6/3/44
Canquejo

38734 Piper

S 2.5 m. high; spikes wh.

38735 Palm

Leaf 2 m. long; trunk 4-5 m, very spiny; fruit red.

38736 Carludovicia

Terrestrial; fr. green

38737 Tococa

Sh. 1 m; pet. pi

38738 Melast.

W.V.; pet. wh; anth. y

38739 Amplidesma

S 50 cm, high

38740 Neurolama

Herb, 40 cm. high; inf. y

38741 Hyptis

Succ. herb 1.5 m with divar. branches; cor. pinkish wh

38742 Maista spicata Tococa spadiiflora T.P.

S 1-1.5 m. erect simple stem; pet. wh; anth yellowish-pink

38743 Rub.

S 2.5 m; cor. white; fr. deep purple; 12 mm. diam

38744 Pilea daguensis

Ter, panicum sp.; inf. gr.

38745 Hep. on leaves of Rub.

Sabaletas, Km. 29, Carretera del Mar

6/4/44

Sabaleto

dense forest 6/4/44

38746 Palm

Trunk 4m, 3.5 cm. diam; inf. greenish wh.; ^{9 mm diam.} ripe fr. deep purple,

38747 Piper

Ter. h., ± woody; repeat at base; stem simple, erect 25-35 cm high

38748 Calathea grandis

Lvs with pet 3 m. long; per. ~~to~~ greenish wh., ^{lip} ~~sepals~~ pink; ^{young} ovary wh.

38749 Philod. cordatum

Spathes g., y-g. apex; spadix greenish wh low 1/2, pink up 1/2 Ter.

38750 Calathea

Lvs up to 2 m (incl. pet.); per. violet; lip wh.; antherium wh.

38751 Columnea

Ep., stem repeat; tube or. - pi, lobes r; lvs red. at apex

38752 Dennstaedtia

Ter. 1-1.2 m.

38753 Marattia

Ter. (lost in fire)

38754 Dryopteris birta

Ter.

38755 Trichomanes

Ter.

38756 Elaph.

Outt

38757 Piper

Sup. herb, 40-50 cm.

Sabaleto

dense forest

38758 Diolena

Ter h

38759 Costus

Er. h. ± 1.5 m; bracts red; per. y

38760 Cania

Low tr., ± 1.5 m; fls. greenish wh.

38761 Geonoma

38762 Peperomia

Rep. on trees; lvs succ., whitish hem.

38763 Peperomia

Rep. on trees, stems slender

38764 Psammisia

Ep. sh.; Calyx red; cor. wh.

38765 Gesn.

Tube pinkish wh. out, y-g in, ^{lobes} red-triged at center in; ^{Ep.} suffrutescent.

38766 Gesn.

Ep. h.; Calyx red; cor. y; fr. wh.

38767 Carludovica

~~Spathes~~ 3, these with stem light gr.; Ep. vine; ^{ripe spadix} orange

38768 Palicourea

Sm. t., 6 m. high; ^{young} inf. greenish wh.; fr. black, lvs. 4 m

38769 Pilea aff. latifolia.

Ter., ~~2~~ 1 m high; inf. greenish

Sabaletas, 25 m.

dense forest 6/4/44

38770 Melast.

8 m. t. 4-5 m; pet. wh.; fil. pi; anther y; fr. deep pi; ^{10 mm}

38771 Piper

Jer.

38772 Melast.

Small tree, 7 m. h.

38773 Trichomanes diversifrons

Jer.

38774 Piper rugosissimum

Tr. 2 m.; fruit deep green

38775 Philod. hirtipes

Vine on tree

38776 Faramea

Small tree; fr. 20×12 mm.

38777 Calathea Rosea

Inf. basal; per. light y, red-streaked in; fruiting ^{lvs deep gr. above, pale} calyx red; leafy stalk ^{1.5 m}

38778 Heliconia

bracts red out, y in; per. greenish y; lvs. lush green

38779 Geonoma

Stem 40 cm; fruit purplish

38780 Geon.

Jer. h.; cor. bright y

38781 ~~Galearia~~ Adiantum

Jer.

Sabaletas

dense forest

38782 Dennstedtia

Jer.

38783 Carludovica

Ep.

38784 Anthurium

Jer.; spathe gr.; spadix ~~deep~~ purple

38785 Columnnea

Jer; ± 60 cm; ^{cor. y} fr. y; lvs. red at apex

38786 Selag.

Wet bank.

38787 Piper

Tr. ± 3 m.; spines 15 mm. thick, green

38788

Coarse ter. herb

Spathe deep gr. below, light gr. above; spadix wh. bel., fruit above

38789 Ilex.

On leaf

38790 Moss

Carretara; \pm open

On very wet bank

✓ 38791 Piper

S 2-2.5 m

38792 Suriana

Woody herb. vine; calyx gr, lobes ~~orange~~ orange; cor. y

✓ 38793 Fischeria

H.V.; cor. greenish white

Sabalelas

Carretera

6/4/44

S. with long branches to 2 m.; cor. red.

38794 Gesn.

un. 15

9

✓38795 Fern.

Jer.

38796 Campana

Cor. wh, lobes ^{spotted with red in; vine bracts light green} ~~pink in, with dotted & spotted with red~~

✓38797 Hoffmannia

S, stem erect \pm 2 m; young fr. whitish

✓38798 Cephalaria barcellana (lost in fire)

Er. S \pm 1.5 m; bracts bright red

✓38799 Dioclea

Woody vine, calyx deep purf, ^{lustrous;} ~~lustrous;~~ pet. violet, ^{stems wh} ~~stems purple - blotched in~~

38800 Ipomoea

H.V.; cor. bright pi.

✓38801 Clidemia

Er. S 1-1.2 m; pet w or pink-tinged; anthers

✓38802 Piper

S \pm 2-2.2 m.

38803 Cordia

S \pm with branches spreading, \pm 2 m.; cor. wh.

✓38804 Piper canescens

Sup. h \pm 40-60 cm.

38805 Cyperus lugubris (L.) Retz (seeds for Ch.)
(Ret O'Neil)

Sabalelas

Carretera

6/4/44

38806 Leandra

S \pm 1-1.5 m; pet. o anth. pi

38807 Sol. Lost

W.V.; cor. wh; fr. or.

38808 Heteranthera reniformis

In pool in pasture; per. wh.

38809 Lycopodium

on bank.

✓38810 Grass

Roadside

✓38811 Sabicea

\pm Sup. vine; cor. wh.; fr. red.

✓38812 Peperomia

Slender vine on trees

38813 Solanum

S, 2 m; cor. wh.

38814 Bixa

Tr. 7 m; cor. pet. o wh.

38815 (Gesn.) Crantzia

Shrub, Jer.

38816 Hepatic

on t.

38817 Rhizophora mangle

↑ To show development of embryos into "shoots"
for loc. see top next page

River

~~Calyx o cor. red.~~

Calyx o cor. red.

Sense forest

Brentum Bay, sv. shore between city and entrance to Rio ~~Bay~~ ^{mangles} 6/5/44

✓ 38818 *Epidendrum parvum*

Ep. 5 seg. pinkish, lip + col. wh.

✓ 38819 ~~*Epidendrum*~~

Ep. (sterile)

✓ 38820 *Epidendrum noctuum*

Ep. 5 seg. 4-9; lip + col. wh.

38821 *Anthurus*

Up.; spathe gr.; spadix deep pi.; fruit red.

✓ 38822 *Epidendrum*

Ep.; 5 seg. + lip wh.; col. greenish wh.

✓ 38823 *Lichen*

On br. of tree; fl. wh.

38824 *Struthanthus*

Par.; fls. greenish wh.; fr. red, 12 x 7 mm.

✓ 38825 *Alga*

On branches, often underwater.

✓ 38826 *Eleocharis*

38827 *Hymenocallis*

Per. seg. pure wh.; ^{filaments} ~~stamens~~ + anthers deep pink segs. 9 cm. x 10 mm (max.)

38828 *Bign.*; W.V. close to ground in grass; cor. cream (field)

Marsh at edge of mangles, near highway El Forge

Brentum Bay; fields ^{bet.} ~~near~~ highway to bay
El Forge 6/5/44

38829 *Rynchospora*

± mainly soil

38830 *Conocarpus*

Swampy ground, edge of mangles

Trees 6 m;

38831 *Nepenthes aquatica*

H. ± 1.5 m.; pet. pt.

✓ 38832 *Melast.*

Lax herb; pet. lilac; anth. red.

38833 *Sarwagesia erecta*

Lvs spreading herb; pet. pt.

38834 *Pavonia rhizophorae*

Back of mangles, but upland. at high tide

S 1-1.2 m. high, bush-branched above; pet. wh., gem. tinged; anth. 4-9

38835 ~~*Combret.*~~ *Myrsine*

Small tree, ^{± 4 m} compact crown, pet. wh.; anth. 4-9.

38836 *Passiflora auriculata*

climber 9 m open

H. V.

38837 *Cyperus polystachyos* var. *teneris* (Torr.) Fern
seeds set on edge

✓ 38838 *Alchornea*

Tr. 10 m, large, rounded crown; fls. ♂ greenish wh.

38839 *Bign.*

W. V; cor. bright y

✓ 38840 *Piper*

S 2-2.5 m.; lvs. lustrous above;

Sabaletas, 25 m. 843 sq.
El Pailón, along carretera 841-844

6/6/44

Det. E. P. Killip

38841 ~~Couep~~ Pectis swartziana Less. Roadside ditch
Slender herb up to 10 cm.

✓ 38842 Scroph.

Slender herb; cor. blue, lower lip yellowish out

✓ 38843 Melast.

Low, much-branched
herb; pet. magenta

38844 Angelonia

Er. herb, ± 30 cm.; cor. blue; ~~lvs. pink~~

38845 Melast.

Low herb; pet. pi.

✓ 38846 Albizzia?

Tall tree, 30 m or more high (old fruit)

38847 Gesn.

Ep. ^{herbaceous} vine; cor. tube red; lobes olive green

Un. Crest: Thicket

✓ 38848 Pothomorphe

Coarse herb up to 1 m; spathe wh.

✓ 38849 Melast.

Ep. Shrub; pet. pi; st. greenish wh.

Edge of stream

✓ 38850 Jusisiaea

Er. h.; pet. light y

38851 Anthurium

Ep.; spathe light pi.

Thicket

38852 Arac.

Ep.; spathe brownish red, paler toward apex; spathe 4-7

Sabaletas, 25 m ~~1853~~

38853 Cryptanthus

Thicket

Par.

✓ 38854 Dryopteris

Forest along Rio Sab.

Ter.

38855 Casearia

Tree, ± 10 m.; infl. greenish wh.

✓ 38856 Acanth.

Herb in dense clumps.

✓ 38857 Acanth

un. 15

Er. h., ± 50 cm; cor pale pi, whitish toward base

✓ 38858 Junc.

Ep. ^{along branches}; old calyx purplish red.

38859 Arac.

Stream bed

Er herb; spathe & spadix wh.; spathe.

✓ 38860 Begonia

Er. h. up to 40 cm; fls. wh.

38861 Phytolacca rivinoides

H ± 50 cm.; flowering racem reddish pi; fls. light pi

38862 Clidanthum

Coarse herb up to 2.2 m; infl. wh.

✓ 38863 ~~Bo~~ Posoqueria

Edge of Forest

Tr. 10 m high; cor. wh.

38864 Heliconia

✓ San Pedro, bet. Sabaletas & Agaña Clara ± 50 m. ^{densely forested valley}
infl. dependent; bracts deep red; per. wh. prox, y. dist.

San Pedro (865)
Agua Clara, ± 100 m (866 sq.)

humid forest & valley
dense forest

38865 Solanum

Shrub with long. ls; cor. ~~wh~~ greenish; anth. wh.

38866 Fraxinus

On log

38867 Clitadum

Shrub

38868 Moss

On tree tr.

38869 Thib.

Ep. Sh; pedicels & calyx red; young fr. y

38870 Tococa nitida

Er. S $\frac{1}{2}$ - 2 m; pet. & anth. pi.

38871 Brom.

un - Ant.

Ep.; sterile bracts in pairs red; per. wh.

38872 Brom.

un. - Ant.

Ep.

38873 Carludovica

Ep.; spadix deep green

38874 Arch.

un - Ant.

Ep.; sep. ~~green~~ y - y

38875 Peperomia

un - Ant.

Ep.

38876 Peperomia albifolia

Ep. vine; lvs. pure wh. beneath

Agua Clara, ± 100 m; dense for.

6/6/44

38877 Peperomia parvifolia

Rept on t.t.

38878 Didymochlamys

H, ter. & on t.t.; bracts gr; cor. tube blue, lobes wh.

38879 Tillandsia

Ep.

38880 Thib.

~~38880~~ Ep. Sh, bracts pi; calyx pinkish wh; cor. wh.

38881 - Arac.

Spadix pinkish - y

38882 Bromel

Photo group.

Ep.; bracts red; bractlets y

38883 Lindsaea

On t.

38884 Treefern

Caudex 2 m.; fronds 1.8 m.

38885 Arac.

un. - Ant.

Ep.

38886 "

" "

Ep. spathe gr.; spadix deep purple.

38887 Anthurium

" "

Ep.; spathe light gr; spadix deep gr.

38888 Psammisia

Ep. Sh.; calyx red; cor. wh

Agua Clara

6/6/44

✓ 38889 Fungus
On tree trunks

✓ 38890 ..

✓ 38891 ..

✓ 38892 ..

38892 Hep.
On tree trunk

✓ 38893 Thib.

Ep Sh; bracts light pi; calyx wh; cor. wh. at base, ^{tinged above} bluish.

✓ 38894 Jococa saccata (seemil.)

S ± 1m; pet. ^{pi}; anth. ^{pi} wh; fr. red

✓ 38895 Vittaria

On t

✓ 38896 Brom.

Ep.; lvs light gr or deep green - banked; bracts or

38897 Clusia

Ep. shrub on tall tree
Fall tree; pet. ^{pi}.

38898 Arae. (Spadiis deep green)

38899 Puya

Ep; per. red in lower 1/2, deep gr. upper 1/2

✓ 38900 Nicotiana

Shrub, 2-3m.; buds greenish wh.

} all morning

Agua Clara

6/6/44

✓ 38901 Diplazium cordatum
Ter.

✓ 38902 ~~Pennantia~~ Polystichum
Repent on t.t.

✓ 38903 Hypolepis
Ter.

✓ 38904 Eschatogramma
Ep

38905 Philod. alatum
Vine on tree

✓ 38906 Elaph.
Ep.

✓ 38907 Diolena pileoides

On tree tr or ter; pet. wh. or pale pi.

✓ 38908 Lindsaea
On tr.

✓ 38909 Rhododaphnophyllum
Repent on fallen t.t.

✓ 38910 Lindsaea
On tr.

✓ 38911 Dryopteris
Ter

✓ 38912 " ?
Ter.

un. 15

un. 15

un. - Cuatr

" - Cuatr

Agua Clara

- ✓ 38913 *Bryopteris*
Ter.
- ✓ 38914 " *hirta*
Ter. caudex ± 15 cm. high
- ✓ 38915 *Hymenophyllum*
~~Ter.~~ Long-reflect & subsp. to TL
- ✓ 38916 *Polypodium*
Reflect on TL
- 38917 *Philod.*
Reflect on TL; spathe deep gr.; spadix light gr.
- ✓ 38918 *Lichen Fungus*
On dry twigs
- ✓ 38919 *Polypodium*
on TL
- ✓ 38920 *Oleandra*
Rep. on TL
- 38921 *Costus spicatus*
Er. herb ± 1.5 m.; infl. red
- ✓ 38922 *Monolaela*
on TL; bracts light pi
- ✓ 38923 *Thick.*
Ep. S with slender branches; bud wh; fruit deep pi
- ✓ 38924 *Melast.*
Tall tree (?); branches on ground; too low. ~~leaf~~ bright purple ber; calyx pinkish gr.

Agua Clara

- ✓ 38925 *Piperaceae*
on TL
- 38926 *Clusia* - Ep. S.; young fr. y-g
- ✓ 38927 *Melast.*; reflect on TL & closely appressed to TL; fr. deep pi
- 38928 *Gesner.*
Ter. li; cor. wh. or pinkish wh.
- ✓ 38929 *Fungus*
on TL; fl. purple
- ✓ 38930 *Nep.*
on TL
- 38931 *Ficus*
Tall tree; this portion found on ground
- ✓ 38932 *Rubi.*
Er. sh. 1.5 m.; cor. wh
- 38933 *Cyperac.*
Ter. Infl. reddish
- ✓ 38934 *Fungus*
on TL
- 38935 *Gonolobus*
H. V.; cor. green; corona orange (clearing)
- ✓ 38936 *Xyris*
(marshy ground; per. y; 7 m. mark)
- ✓ 38937 *Hibiscus* Herb, 1-1.5 m; sup. lobes; pet. y
El. Forge, eastern edge of Buenaventura

6/8/44

El Forge
~~Forge~~, eastern edge of Buenton

6/8/44

✓ 38938 *Stylosanthes*

Much-branched herb; pet. y

38939 *Utricularia*

Very slender h; cor. y.

38940 *Myrt.* ?

S. up to 1 m; pet wh.

38941 *Malp. glaberrimum*

Sm. tree, 4 m; pet y

38942 *Malp.*

Sm. t. 2.5 m, with many elong. lvs.; pet y

✓ 38943 *Dichaea*

Ep.; 5 ft. big purple-spotted in; lip & col. y-g

✓ 38944 *Funaria*

On log; caps cream below, greenish wh. above

✓ 38945 *Alga*

On lower branches of trees

✓ 38946 *Kippocot*

W. V; fls. green

38947 *Rumex*

Tall herb, 1.5 m.

38948 ?

Low herb in mud; buds wh.

✓ 38949 *Orch.*

Ep.; per. wh.

Roadside

Wet gravelly soil

Back part of

manure way
undisturbed only
at high tide

El Forge

38950 *Epidendrum*

Ep. 3-4 m. 4-g, 2 wh, color like y

✓ 38951 *Polypodium*

Ep.

✓ 38952 *Orch.*

Ep.; Sigm. greenish

✓ 38953 *Eleph. angustif.*

Ep.

✓ 38954 " *latif.*

Ep.

✓ 38955 *Hymen. Trichomanes elatum* Desv. det. Th. Smith 1977
on T.L.

38956 *Anon.*

Tree, 2 m; fls. wh.

38957 *Cudrania*

Ep. in cor. pink

38958 *Cassipourea*

T. 6-7 m; fls. green

38959 *Indrostylis rhizophorae* Steetz

On tree trunk, 1 m up. at this time 2 yrs

38960 *Anac.*

Ep. in; upl. y-g

✓ 38961 *Thib.*

Ep. S; cor. wh; fls. tinged ~~pink~~ in upper 1/2

From edge of mangrove
Thicket only at high tide

~~Forge~~
El Forge

6/8/44

38962 Clusia

Imm. on high tide

S ± 4m. sh., long, br.

38963 Anthurium

Ep.; spathe pi; spadix deep pi

38964 Carludovica bicolor Standl.

Ep.; spadix pink, brown at base of lvs.

38965 Nectella

Imm. only at high tide

± 10m; fl. pet. ~~pink~~ wh.; stamens pink

✓ 38966 Citharexylum

Tree 7m; lvs. light green; fruit deep purple.

38967 Zamia

Trunk ± 1m; spathe 30 x 8 cm. ^{sub} green.

✓ 38968 Rub. | La Cuarentena, Botum Bay, ^{Forest at edge of mangles} 6/9

Er. S, 2.5m.; cor. wh.

Un 1C

✓ 38969 Bauhinia

W.V., long spreading; ^{lvs} fl. dark reddish brown ben.; ^{deep gr. or} lvs. above

38970 Bathypa

S or sm. T, ± 3m; cor. tube gr., lobes pi; anther y-g; fr. blackish

38971

W.V.; lvs. thick-cor; bracts light green;

38972 Scleria

Er or subscandent h. 2m or more long; infl. ^{"Cortaduro"} dark brown; lvs. ^{2 or 3} dark

38973 Tuberositylis rhizophorae

Ph.

Ep., repent on base of tree trunks; ^{inf.} florets greenish white; styles white / mangles

La Cuarentena, Botum Bay no. shore,

6/9/44

38974 Cryptanthus

Forest at edge of mangles

Par. sh; fr. deep green; lvs. lustrous

38975 Cassipourea

Jr, ~~6~~ 6-7m.; fr. olive green

38976 Vismia

Jr. ± 10m; sepals rusty-brown; lvs. lvs. rusty brown (young), white (old)

✓ 38977 Nep.

On t.c.

✓ 38978 Aegiphila

W.V.; cor. wh, green-tinged

✓ 38979 Rub. | Boca de Lobo, Botum Bay, no. shore; ^{Forest at edge of mangles}

Jr. 3.5m, branches overhanging cliff.

38980 Tuberositylis axillaris

Ph

Bark at edge of mangles usually not reached at high tide

5 ± ^{1m} ~~2m~~, with ^{somewhat} drooping branches; lvs. coriaceous; ~~cor~~ infl. green

✓ 38981 Ficus

On lvs; caps pure wh.

38982 Mapania

Ter.

✓ 38983 Cephelis

Un. - 1C

Er. S, ± 2m; bracts deep purple.

38984 Chuscia

J. 7-8m; fl. thick-fleshy, greenish wh.

✓ 38985 Sobralia candida

Er. trunk ± 3m; stem unbranched; 5 seg. pure wh; lvs. white lined in at center with pinkish green. ^{On 4 feet cliffs among mangles}

38986 Comp.?

W.V.

38987 Stigmaphyllon

W.V. climbing to top of high tree; samaras light gr.

38988 Basiflora amiculata

H.V.

✓38989 Eulast.

Tr. $\pm 8m$; fr. deep purple.

✓38990 Hippocr.

W.V. i fls. green

38991 Myrt.

Tr. $\pm 15m$; fruit & stems wh.

38992 Ficus

Tr. $\pm 20m$; fr. dull pi.

38993 Spigelia

H.; cor. light pi., striped with deeper pink

✓38993 Fungus

On trunk of Mora.

38994 Mora (fruit only)

Large tree

38996 Gesn.

un. K.

Ep; cor. tube greenish y, minutely pink-spotted out; lobes yellow.

✓38997 Guzmania

Ep; per. greenish wh.

Boca de Lobo, no. shore Buenaventura Bay; forest at edge of mangles. 6/9/44

Second growth woods

Buenaventura; waste places

La Cuarentena

Boca de Lobo

from bottom
Km. 8, Carr. al mar (\pm tidal forest)

38998 *Aechmea*

Ep.; bracts red; per. greenish wh.

✓ 38999 *Melast.*

J 6-7m; pet. pi.

39000 ?

Tr. 12m. high, trunk 15cm. diam; fruit brown; buds green

✓ 39001 *Guzmania variegata*

Ep; bracts bright red; per. y, wh. at apex

39002 *Spathiphyllum*

Ep; spadix wh.

✓ 39003 *Spherospermum*

Ep, climbing branches; cor. wh.

39004 *Clusia Tuberostylis apillaris*

~~D.~~ S, with elong. br., climbing up small trees; infl. green

✓ 39005 *Def.*

On branches

39006 *(Palu) Enterpe*

Trunk 10cm. diam, 5m. high; sheaths red-violet, 1m. long;
~~Tr. 12m. high, trunk 15cm. diam; fruit brown; buds green~~

✓ 39007 *Fungus*

On log; brown above, grayish wh. below.

39008 *Clusia*

Tr, ± 8m; ^{to 10cm. diam.} pet. pi.

✓ 39009 *Polypodium*

On tt

from Bvent
Km. 8 of Carr. al mar.;

6/10/44

pet. 30cm. long, rest of leaf 2m. long; infl. 80cm.

39010 *Struthanthus*

Par.; infl. greenish y

✓ 39011 *Peperomia*

Ep. vine; lvs. wh. ben.

✓ 39012 *Rub*

Sh, ± 3m; fr. deep red

✓ 39013 *Mikania*

H.V.; infl. (young) y-g

✓ 39014 *Sabicea*

W.V.; cor. greenish wh.

✓ 39015 *Melast.*

^{Scrub}
Sh. ± 5m; fr. pinkish purp.

✓ 39016 *Richardia*

~~Roadside~~ Cor. wh.

✓ 39017 *Chamaecrista*

Low herb; pet. y.

✓ 39018 *Cephaelis*

^{Scrub}
Sh up to 4m; bracts light red; cor. y; fr. blue

✓ 39019 *Columnnea*

Ep., subac.; cor. or.; lvs red ben. in upper 1/3

✓ 39020 ~~Bomarea~~ Gesn.

Ter; cor. tube gr. wh; lobes wh.

✓ 39021 *Calathea*

Ter; old bracts reddish brown

un. - K

Km. 8, Carr. al Mar (dense forest)

6/10/44 81008

81008

81008

81008

81008

81008

" Roadside

81008

81008

Km. 15

- Dense forest (dryer forest)
not ideal

81008

81008

81008

81008

✓39022 Hymenop.

On tt.

✓39023 Psychotria

S + 3m; ~~fr.~~^{deep} fr. deep gr.

39024 Anthurium

un-K

Ep.; shade gr.

39025 Passifl.

H.V.; buds pink

✓39026 Cephaelis

Small tree; cor. wh. 6-7m.

✓39027 Fungus

On log; fls pink

✓39028 Elaph.

On tt.

✓39029 Palicourea

S. 2-3m; fr. gr.

39030 Anthurium

Ep.

✓39031 Lycopodium

Vine

✓39032 Polypodium leptolepis

Ter.

✓39033 Polypodium

On tt.

1km. 15, Car. al Mar. (dense for.)

6/10/44 80000

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80000

Bridge over Río Laguna, wooded banks of Río Laguna

✓ 39034 *Asplenium*

Ep.

✓ 39035 *Piper*

S 2-2.5 m.

✓ 39036 *Grass*

39037 *Kyllinga*

39038 *Fimbristylis*

39039 *Costus*

Coarse herb ± 2 m; fls. wh.

39040 *Nelicoria*

✓ H 2-2.5 m, infl. erect; bracts ^{or 1-4 orange-yellow throughout} y at base, red above; per. y

✓ 39041 *Phyllanthus*

Erect S, ± 1.5 m; fls. ~~greenish~~ wh.

✓ 39042 *Adiantum*

✓ 39043 *Centrosema*

N.V.; fls. purish blue

39044 *Urera*

Coarse h, 1 m; fls. wh. .. w stringy hairs!

39045 *Pouzolzia*

S 3-5 m; infl. greenish.

Wooded banks of Rio Sagra, near highway bridge 6/10/44

Open Trail

Open bank

" "

Thickets

Nearly Thickets

"

Open bank

Thickets

39046 *Calathea*

un. 1K,

Coarse herb; fr. orange; seeds blue

✓ 39047 *Asplenium*

Ort.

✓ 39048 *Piper*

S 2-2.5 m.; lvs. pale beneath.

✓ 39049 *Piper*

In 5-6 m.

✓ 39050 *Audouinia*

✓ 39051 *Burmannia*

Per. pi.

✓ 39052 *Borreria*

Sup. vine, climbing over shrubs ± 3 m; ripe fr. deep pi.

39053 *Ipomoea pes-caprae*

Vine, rep. in sand; cor. purp.

39054 *Clerodendrum tomentosum* L.

T, 8 m high; buds greenish wh.

39055 *Wedelia brasiliensis* (Spreng.) Blake

Repet in sand; rays y

✓ 39056 *Phaseolus*

W. repet in sand; stand pinkish purp but purple ~~stems~~ in; seed ~~wh.~~ wh.

✓ 39057 *Anacardium occidentale*

" " " " fl. parts purple

Bank of Rio Sagua at highway bridge 6/10/44

Thickets

Edge of small stream

Roadside

El Pailón, bet. Bauta & Rio Sagua, along highway

Jagoromá

Coastal thickets

Playa

wings ^{white} ~~purple~~ out, purple striped in

39058 ~~Croton~~ Pectis arenaria Benth. Det. E. P. L.

LV refert in sand & closely appressed to ground; rays y

39059 Fimbristylis

In sand

39060 " miliacea (L.) Vahl

" "

39061 Ipomoea

Refert in sand & closely appressed to ground; cor. wh.; lvs. succulent occasionally 3-lobed!

✓ 39062 Grass.

Refert in sand (sterile)

39063 Haesperia

J. 4-6 m; fl. or., becoming red.

✓ 39064 Grass

Refert at base in sand; infl. purple

len 1c

✓ 39065 Dichaea

Ep. 5-seg. 4-9; ^{pink-shotted in} lvs. & col. deep pi.

39066 Antherium

Ep.; spathe gr.; spadix or-y

✓ 39067 ~~Ep.~~ Claph.

Ep.

39068 Vernonia

Plant subsc. in tall grass; flowers & styles pi.

39069 Cyperus ferox L.C. Rich.

In sand

Jaguaromá, Choco.
Playa

6/12/44 8200E

8200E

8200E

1300E

8200E

8200E

8200E

8200E

8200E

8200E

8200E

8200E

- ✓ 39070 *Aschynomene*
 Er. h. up to 1.5 m., few-branched; fls. light y
- ✓ 39071 *Polypodium*
 Rep. on br. of trees
- 39072 *Pluchea*
 Ep.
- ✓ 39073 *Tuca*
 Tree ~~to 10 m~~ 5-8 m; st. wh.
- ✓ 39074 *Citharexylum*
 W.V; calyx wh, pi-tinged; cor. deep pi.
- 39075 *Erechtites hieracifolia*
 Er. h. 2-2.5 m; pappus wh.
- ✓ 39076 *Alchornea*
 T; infl. green.
- 39077 *Cassia*
 Tr. 10 m; fruit pi.
- ✓ 39078 *Apoc.*
 S; cor. wh.
- ✓ 39079 *Rub.*
 Tr; ripe fruit pink
- 39080 *Ficus*
 Tr 15 m.
- ✓ 39081 *Melast.*
 Ep. S; fls. wh; anthers or; fr. deep pi.
 bracts pi.

Togoroma
 Playa

Coastal thicket

"

"

"

"

Playa

Coastal thicket

"

"

" woods

Banks of
 Río Togoroma; dense tidal forest
 Quebrada

6/12/44

15000

25000

25000

25000

25000

25000

25000

25000

25000

6/13/44

18000

(Dumalis all written
beyond here)

39082 *Sphynospenn*

Ep. with drooping; cor. wh.

39083 *Lindsaea*

On t.

39084 *Alaophila*

Caudex \pm 1 m; fr. $\frac{1}{2}$ m.

39085 *Palen Manecaria*

Tr. ~~15~~ 4 m. high, 15-20 cm. diam; old infl. purple Ph. Fruit
leaf
2nd row
2nd row

39086 *lur.*

Smallest tree;
cor. greenish wh

39087 *Tetracera*

W.V; fruit deep gr.

39088 *Melast. Topobaea trianaei Cogn. Det. Lessert*

Tall tree; cor. deep pi.

39089 *Melast.*

Small tree; fl. pi.; ~~anther~~ ^{anther} greenish y

39090 *Viscaria*

Tr.; fl. light y; fruit-striped

39091 *Verb.*

Small tr; young infl; ~~greenish~~ greenish

39092 *Ficus*

Tr.

39093 *Mysium*

Tr.

Banks of Quebrado Jogoroma; dense tidal forest 9/13/44

28082

28083

28084

28085

28086

28087

28088

28089

28090

28091

28092

39094 Gentif.

Small tr.

39095 Begon.

W. V., high climbing; cor. bright y

39096 Melast.

Tr.; ripe fr. bright blue shining.

39097 Picus

Tree "Higuera"

39098 Philod.

Ep. vine; spathe deep gr.; spadix whitish

39099 Grass

Pl. 2 m high; in water

39100 Marge.

Vine; long dependent from trees

39101 Dalbergia

Tr.; fruit ^{bright} green

39102 Costus

Crane erect tr., 2.5-3 m; br. red; pet. y

39103 Palicourea

Small tr.; branches of inflo. cymes; cor. y

39104 Tournefortia

S., with elong. br.; cor. wh.

39105 Andira

Tr.; fls. purple; fruit drupeous, green

Banks of Queb. Tugoroma; dense tidal forest 6/13/84

39106 Melast.

Tr.; lvs. white beneath; pet. pi.

39107 Ficus spectabilis

Tree; st. wh.

39108 Hib.

Ep. sh.; cor. red lower $\frac{2}{3}$, green up $\frac{1}{3}$, ^{tips of lobes purplish} styles greenish wh.

39109 Hef.

On lvs of 9108

39110 Hib.

Ep. S. calyx red; cor. light gr., deep gr. & y. from base to tip.

39111 Perid.

Ep. Vine; spathe gr.; spadix wh.

39112 Amphidasya

Sup. tr. \pm 50 cm; calyx green, lobes lighter gr. to wh.

39113 Cephaelis

Sh; calyx longest. striped, light & dark green; ^{cor. yellow} fr. purple

39114 Siparuna

S. $\frac{1}{2}$ 3-4 m; fr. reddish brown; fls. y. g.

39115 Dicranopteris

Low erect herb.

39116 Rub.

~~Shrub~~ Sh; cor. wh.

39117 Gesn.

Ep. vine; fr. wh., pink-tinted; cor. tube pi, lobes wh

Banba of Quech. Tugoronia, denudated forest 6/13/44

low - Munch. per.

Dense tidal forest

39118 Apoc.

Vine; fls. bright y; fr. green

39119 Piper

S ~~3~~ 3-4 m;

39120 Epid. noct.

Ep.; s. seq. y; lth o col. wh.

39121 Melast.

Ep. S. ~~calyp~~ light gr.; pet. o st. wh.

39122 Begon.

W. V.; cor. wh.; fr. ^{+ 35 cm} ~~l.~~ l.

39123 Aphelandra

S 1 m; bracts o cor. r.

39124 Piper

Vine; spikes purplish purple

39125 Carludovica

Ep. ♂ wh; fr. ^{dark} green

39126 ~~P.~~ Zygia

~~Jag~~ Tall tree; stem, fr., becoming reddish

39127 Leg. Swartzia

Tree

39128 Hep.

On lvs of palm

39129 ~~Cer~~ Ceralozamia

Tree

Banks of thub. Fogoroma

6/13, 6/12/44
Dense tidal forest

39130 *Hirtella*

Tr.; pet. wh.; st. pi.

39131 *Pavonia*

Sr. sm. t.; pet. wh. or pinkish wh. or greenish wh.

39132 *Och.*

Ep.; per. wh.

39133 *Heliconia*

Pl. 3 m. high; bracts dull red; per. greenish y

39134 *Enallagma*

Sr. t.; cor. tube wh.; lobes light green; fr. apherical, 6 cm. diam. (Sapote) ^{bright green, shiny}

39135 *Aechmea*

Ep.; bracts pinkish red; young bractlets light gr. ^{lvs. green or purple}

39136 *Melast.*

Sm. t.; young fr. gr.

39137 *Melast. Couratella*

Sm. t. fls. wh.

39138 *Hippoc.*

W.V; very young inf. greenish wh.

39139 *Chasia*

Tree pet. & pi.

39140 *Peperomia*

Repent on tree.

39141 *Cassipourea*

Tr; & cary - fr. green

Banks of threl. *Togomora*

6/14/44 ¹³¹ some trees for

39142 *Melast. quadrangulatus*

Tr.; calyx greenish brown; pet. bright pi, fleshy

39143 *Tuberostylis*

Subsc. Sh.; lvs. coriaceous; bracts grass green

39144 *Borreria*

Shrub, often in water, much branched 1-2 m; Cor. tube greenish wh., lobes wh.

39145 *Thib.*

Ep. S; calyx pinkish wh, shining; cor. deeper pink, with white ham.

39146 *Souroubea*

Scf. vine; fls. greenish wh., also younger pedicels; pedicels becoming

39147 *Melast.*

S; inf. erect; fr. or., 4 mm. diam.

lvs 30 x 18 cm.

39148 *Schefflera*

S; fr. pinkish red, 5 mm. diam.

39149 *Passiflora aquatica* "sapotolongo"

Large tree; stamens white below, red above; fr. 25 cm. diam.

39150 *Rub.*

Sm. tree or Sh; cor. purple. Very common close to stream

39151 *Cephaelis*

lm - 11

Small tree; cor. wh.

39152 *Euph. ?*

Tr. \pm 10 m; fr. green

39153 *Ardisia*

Small tree, 2-3 m high; pet. wh, pinkish striped

Banks of Queb. Jogomora; demetidal forest 6/14/44

lobes wh.

orange-brown as does the rachis

39154 *Eridia*

Small tree?

39155 Sapot.

Tr. 10m; fr. spherical, greenish y, 3 cm. diam., 2-seeded

39156 Piper

S; lvs. dark green & lustrous above, paler beneath

39157 *Tournefortia*

Tr.

39158 *Mikania*

W.V.; young infl. green

39159 *Margarita*

W.V., dependent, the infl. erect; "sac" greenish wh, purplish toward base; beneath red

39160 *Arceuthobium*

Tr.; cor. wh.

39161 *Peperomia*

Small tree, erect; lvs. white beneath
along city streets

39162 *Melast.*

Erect. sh.

39163 Moss

On tt

39164 Piper

S ± 15m

39165 *Clusia*

Tall tree

Banks of Hueb. Toguomora; dense tidal forest 6/13/44

6/6/44
6/11/44
Cali, 1000m. Laguna Clara, ± 100m; dense for.

El Forge, clearing

Km. 8; dense for.

6/8/44

6/10/44

39166 *Anthurium*

Ep; fr. ^{bright} red.

39167 *Anthurium*

Ep.

39168 *Anthurium*

Rep. outt

39169 Hep.

On leaves of 39110

39170 Orchid

Ep.; per. rich deep pi.

39171 *Calangium odoratissimum* (*Ananga odorata*)

Small tree, grown along city streets

39172 *Leibum caliense* Hieron. Det E. P. Killip

Sub herb 1-1.5 m; florets bright y

39173 Fungus

On trunk of *Cecropia*

39174 Lichen

" " "

39175 *Cecropia*

Trunk, \pm 40 cm. at base; pet \pm 1. ^{5 m} ~~4 m~~; frond \pm 3 m ~~2.2 m~~.

39176 *Pavonia*

S herb, \pm 1 m; pet. bright y

39177 *Astrophylla chaerophyllodes* (Jes.)/DC.

Lax herb, with elong. br.; cor. wh.

Km. 8, Putura Highway; Dec 6/10/44

"

"

Banks of Queb. Tageroua; Dec 6/13/44

Cineros (purchased at train ^{but} ~~by~~ common in the forest) 6/15/44

Cali, 1000 m.

Carr. at Mar, Km. ¹² ~~14~~ 1400 m. ^{Roadside} ~~banks~~ 6/22/44

" " " 15, 1760 m

Clearing

" " Mares, 1890 m. Thudr.

39178 *Ladenburgia*
Tree 8 m.; 10 cm. diam.

39179 *Piper*

Tree, \pm 4-5 m;

39180 *Phenax*

Sup. herb \pm 60-80 cm.

39181 *Phyllanthus muscifolius*

W.V.; fls. greenish

39182 *Struthanthus*

Par. shrub; fls. greenish; fr. pi.

39183 *Hep.*

On lvs. of 39182

39184 *Marchantia*

On bank.

39185 *Fraxinus*

On bank (with *Marchantia*)

39186 *Cuphea*

Herb; petals lilac

39187 *Solanum*

S \pm 2 m, elong. fr; cor. wh.; anthers cream

39188 *Solanum*

S \pm 2 m " " " " " "

39189 *Palicourea*

Tr. 3-4 m; cor. wh.

1880 Forest
Carr. al Mar, Maricao, 1880 m; ~~thickets~~

6/22/80

Edge of forest

Forest

39190 *Palicourea*

S 2-3 m. branches infl. deep purpl.; cor blue at base shading

39191 *Curtisopogon*

S ± 1.5 m; ϕ cor. bright red.

39192 *Liabum hastatifolium* P. & E. Det. E. P. Killip

Sub. h. ± 1 m; infl. y.

39193 *Lantana Bonariensis*

H V sep. red int, slightly y; pet. with y claw, & base of

39194 *Miconia theaezans* sancti.

S or sub. t., ± 3 m high; pet. wh,

39195 *Cordia acuta*

Tree ± 4 m; cor. greenish wh; limb mostly serrate

39196 *Moutanosa*

Tr. 4-5 m; rays wh; florets greenish

39197 *Eupatorium*

E. h. ± 80 cm; florets bright pi

39198 *Cordia*

S 50-80 cm.; cor. wh.

39199 *Cuphea*

H., pet. lilac; calyx green, with purple tips

39200 *Stylosanthes*

H; pet y

39201 *Apium annu*

Slender herb; pet. wh

Can. al men, 1880 m.; forest 6/22/44
to green & pink

blades y, apex red; relatively few purple spots in, but not
- Edge of form ~~1850-1800~~ m. ^{at apex}

" " 1710 m.

" "

Clearing

Las Nieves 1700 m.; clearing

In grassland

39202 Wedelia
~~Splend.~~ Herb; rays bright y; florets deeper y.

39203 Lantana Solanum

V; cor. wh; anthers y

39204 Lantana

H; cor. light f; fruit deep purple

39205 Piper

S ~~2-3 m~~ 1.5-2.5 m.

39206 Liatris nigropilosa Hieron. Det. E. P. Killip

Subsc. shrub; rays y; florets dark y

39207 Verbena

^{up to 1 m.}
H; cor. pinkish blue

39208 Mouroua

S 1-2 m; sepals purple; pet. y

39209 Passiflora

Pl. 2 m. high

39210 Rynchospora

Pl. 2 m. high

39211 Saurauja

Tr. 4-5 m; pet wh.

39212 Galeandra beyrichii

S ~~seq.~~ light green; lip wh; purple-lined at apex. Terrestrial

39213 Heisteria

= 38582a

Las Nieves, 1700 m.; clearing

6/22/44

~~Forest~~
↓

Clearing

Edge of forest

Clearing

~~S For.~~

± 1.80 m.

~~Spl. marsh~~, Par. de Puracé, 3500 m.
Spl. marsh,

5/26

Write notes about these

39214 Orch.

Ep. = 38667a. Estero de Bodegas

6/2/44

39215 Philodendron

= 38669a

ll

"

"

39216 Asclep.

Herb. vine

38763a

Colorada (forest)

6/3/44

39217 Moss

on 38758

Sabaleta (dense forest)

6/4/44

39218 Gesn.

= 38785a Ep.

ll

"

"

39219. Cleocharis

"El Forge," near Highway bridge

6/8/44

= 38936a

39220 Hep.

Sub. Foguera,

6/13/44

On 39082 (Sphynspermum)

39221 Hep.

"

ll

On 39010 (Ibitandriae)

39222 Arac.

ll

"

Ep. = 39111a

39223 Hep.

"

"

On Clusia = 39139a

39224 Picramnia

Highway Bridge at km 20

6/10/44

With 39036

39225

TABLA DE MULTIPLICAR

1 X 1 = 1	2 X 1 = 2	3 X 1 = 3	4 X 1 = 4	5 X 1 = 5
1 X 2 = 2	2 X 2 = 4	3 X 2 = 6	4 X 2 = 8	5 X 2 = 10
1 X 3 = 3	2 X 3 = 6	3 X 3 = 9	4 X 3 = 12	5 X 3 = 15
1 X 4 = 4	2 X 4 = 8	3 X 4 = 12	4 X 4 = 16	5 X 4 = 20
1 X 5 = 5	2 X 5 = 10	3 X 5 = 15	4 X 5 = 20	5 X 5 = 25
1 X 6 = 6	2 X 6 = 12	3 X 6 = 18	4 X 6 = 24	5 X 6 = 30
1 X 7 = 7	2 X 7 = 14	3 X 7 = 21	4 X 7 = 28	5 X 7 = 35
1 X 8 = 8	2 X 8 = 16	3 X 8 = 24	4 X 8 = 32	5 X 8 = 40
1 X 9 = 9	2 X 9 = 18	3 X 9 = 27	4 X 9 = 36	5 X 9 = 45

6 X 1 = 6	7 X 1 = 7	8 X 1 = 8	9 X 1 = 9	10 X 1 = 10
6 X 2 = 12	7 X 2 = 14	8 X 2 = 16	9 X 2 = 18	10 X 2 = 20
6 X 3 = 18	7 X 3 = 21	8 X 3 = 24	9 X 3 = 27	10 X 3 = 30
6 X 4 = 24	7 X 4 = 28	8 X 4 = 32	9 X 4 = 36	10 X 4 = 40
6 X 5 = 30	7 X 5 = 35	8 X 5 = 40	9 X 5 = 45	10 X 5 = 50
6 X 6 = 36	7 X 6 = 42	8 X 6 = 48	9 X 6 = 54	10 X 6 = 60
6 X 7 = 42	7 X 7 = 49	8 X 7 = 56	9 X 7 = 63	10 X 7 = 70
6 X 8 = 48	7 X 8 = 56	8 X 8 = 64	9 X 8 = 72	10 X 8 = 80
6 X 9 = 54	7 X 9 = 63	8 X 9 = 72	9 X 9 = 81	10 X 9 = 90

EQUIVALENCIA DE PESOS Y MEDIDAS

LONGITUD

CM.	-	0.3936982	PULGADAS	PULGADA	-	2.54	CM.
METRO	-	39.36982	PULGADAS	PIE	-	30.48	CM.
METRO	-	3.28081	PIES	YARDA	-	91.44	CM.
KM.	-	0.62137	MILLAS	MILLA	-	1.609.34	M.

SUPERFICIE

CM2	-	0.1550	PULGS. CUADS.	PULG. CUADR.	-	6.452	CM2
M2	-	10.764	PIES CUADRADOS	PIE CUADRADO	-	0.0929	M2
M2	-	1.196	YARDAS CUADS.	YARDA CUADR.	-	0.8361	M2
HECTAREA	-	2.47	ACRES	ACRE	-	0.4047	HECTAREA
KM2	-	0.386	MILLAS CUADS.	MILLA CUADR.	-	2.59	KM2

VOLUMEN

CM3	-	0.06102	PULGADAS CUBICAS	PULGADA CUBICA	-	16.39	CM3
M3	-	35.31	PIES CUBICOS	PIE CUBICO	-	0.0283	M3
M3	-	1.308	YARDAS CUBICAS	YARDA CUBICA	-	0.765	M3

CAPACIDAD

LITRO	-	61.023	PULGS. CUBICAS	PIE CUBICO	-	28.317	LITROS
LITRO	-	0.3531	PIE CUBICO	PULG. CUBICA	-	16.387	CM3
METRO CUB.	-	264.17	GALONES AMER.	GALON AMER.	-	3.78539	LITROS
METRO CUB.	-	35.3166	PIES CUBICOS				
GALON AMERICANO	-	231	PULGS. CUB.	-	0.8333	GALON IMPER. ING	
GALON IMPERIAL INGLES	-	277.247	PULGADAS CUBICAS				
GALON IMPERIAL INGLES	-	1.20032	GALON AMERICANO				

PESO

GRAMO	-	15.432	GRANOS	ONZA	-	28.35	GRMS.
GRAMO	-	0.03527	ONZ.	LIBRA	-	453.6	GRMS.
KILOGRAMO	-	2.2046	LBS.	TONELADA 2.000 LBS.	-	907.18	KG.
TONELADA METRIC.	-	2204.6	LBS.	TONELADA 2.240 LBS.	-	1.016.1	Kg.

GRANO	-	0.0648	GRAMOS
ONZA TROY	-	480	GRANOS
ONZA AVOIRDUPOIS	-	437.5	GRANOS
ONZA FLUIDA	-	29.6	CENTILITRO